



PTO/SB/08A (04-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	09/720,639
Filing Date	05/16/01
First Named Inventor	Nissim Darvish et al
Art Unit	3762
Examiner Name	G.R. Evanisko
Attorney Docket Number	IMP031.228766

Sheet 1 of 15

ALL CONSIDERED  
EXCEPT LINED  
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REFERENCES  
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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A	US- 3,572,345	Mar. 1971	Auphan	
	B	US- 3,587,567	Jun. 1971	Schiff	
	C	US- 3,651,805	Mar. 1972	Breiling	
	D	US- 3,942,536	Mar. 1976	Mirowski, et al.	
	E	US- 3,952,750	Apr. 1976	Mirowski, et al.	
	F	US- 4,030,509	Jun. 1977	Hellman, et al.	
	G	US- 4,106,494	Aug. 1978	McEachern	
	H	US- 4,164,216	Aug. 1979	Person	
	I	US- 4,184,493	Jan. 1980	Langer, et al.	
	J	US- 4,202,340	May, 1980	Langer, et al.	
	K	US- 4,223,678	Sept. 1980	Langer, et al.	
	L	US- 4,237,895	Dec. 1980	Johnson	
	M	US- 4,273,114	Jun. 1981	Barkalow, et al.	
	N	US- 4,312,354	Jan. 1982	Walters	
	O	US- 4,316,472	Feb. 1982	Mirowski, et al.	
	P	US- 4,384,585	May 1983	Zipes	
	Q	US- 4,387,717	Jun. 1983	Brownlee, et al.	
	R	US- 4,403,614	Sep. 1984	Engle et al.	
	S	US- 4,407,288	Oct. 1983	Langer, et al.	

no translation

not complete

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			T <sup>6</sup>
	T	EP 148687	Jul. 1985	Henry, et al.	
	U	EP 148687	Jul. 1985	Henry, et al.	
	V	EP 0314078B1	May 1989	Mehra	
	W	JP 4365493	Dec. 1992	Yutaka	
	X	JP 7126600	May 1995	Kazusaki	
	Y	JP 8243476A2	Sept. 1996	Kell	

Examiner Signature	Date Considered
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Sheet 2 of 15**Complete if Known**

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Examiner Name	G.R. Evanisko
Attorney Docket Number	IMP031.228766

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	Z	US- 4,440,172	Apr. 1984	Langer	
	AA	US- 4,506,680	Mar. 1985	Stokes	
	AB	US- 4,543,738	Oct. 1985	Mower	
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	AD	US- 4,559,946	Dec. 1985	Mower	
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	AI	US- 4,674,508	Jun. 1987	DeCote	
	AJ	US- 4,679,572	Jul. 1987	Baker, Jr.	
	AK	US- 4,690,155	Sep. 1987	Hess	
	AL	US- 4,726,379	Feb. 1988	Altman et al.	
	AM	US- 4,765,341	Aug. 1988	Mower, et al.	
	AN	US- 4,830,006	May 1989	Haluska et al.	
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	AR	US- 5,003,976	Apr. 1991	Alt	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	AG	JP 04117067A2	Apr. 1992	Masayoshi		
	AT	WO 92/00716	Jan. 1992	Waide et al.		
	AU	WO 95/08316	Sept. 1995	Vistung		
	AV	WO 97/25101	Jan. 1997	Ben-Haim		
	AW	WO 98/10831	Sept. 1996			
	AX	WO 2000/4947	Jan. 2002			

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	AY	US- 5,020,544	Jun. 1991	Dahl, et al.	
	AZ	US- 5,022,396	Jun. 1991	Watanabe	
	BA	US- 5,044,375	Sep. 1991	Bach, Jr. et al.	
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	BD	US- 5,111,815	May 1992	Mower	
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	BR	US- 5,284,491	Feb. 1994	Sutton, et al.	
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	DC	US- 5,571,143	Nov. 1995	Hoegnelid, et al.	

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	DF	US- 5,587,200	Dec. 1996	Lorenz	
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	DH	US- 5,601,611	Feb. 1997	Fayram et al.	
	DI	US- 5,622,687	Sept. 1997	Hedberg et al.	
	DJ	US- 5,626,622	May 1997	Cooper	
	DK	US- 5,634,899	Jun. 1997	Shapland, et al.	
	DL	US- 5,649,966	Jul. 1997	Noren et al.	
	DM	US- 5,651,378	Jul. 1997	Matheny	
	DN	US- 5,674,251	Oct. 1997	Combs et al.	
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	DP	US- 5,683,431	Nov. 1997	Wang	
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	DV	US- 5,738,105	Apr. 1998	Kroll	

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Attorney Docket Number	IMP031.228766

Sheet 7 of 15

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	DW	US- 5,749,906	May 1998	Kieval et al.	
	DX	US- 5,755,740	May 1998	Nappholz	
	DY	US- 5,782,876	Jul. 1998	Flammang	
	DZ	US- 5,782,881	Jul. 1998	Lu et al.	
	EA	US- 5,792,198	Aug. 1998	Nappholz	
	EB	US- 5,792,208	Aug. 1998	Gray	
	EC	US- 5,797,967	Aug. 1998	KenKnight	
	ED	US- 5,800,464	Sep. 1998	Kieval	
	EE	US- 5,807,234	Sep. 1998	Bui et al.	
	EF	US- 5,807,306	Sep. 1998	Shapland, et al.	
	EG	US- 5,814,079	Sep. 1998	Kieval	
	EH	US- 5,865,787	Feb. 1999	Shapland, et al.	
	EI	US- 5,906,607	May 1999	Taylor, et al.	
	EJ	US- 5,913,876	Jun. 1999	Taylor, et al.	
	EK	US- 5,927,284	Jul. 1999	Borst, et al.	
	EL	US- 6,032,074	Feb. 2000	Collins	
	EM	US- 6,032,672	Mar. 2000	Taylor	
	EN	US- 6,041,252	Mar. 2000	Walker et al.	
	EO	US- 6,071,305	Jun. 2000	Brown et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	09/720,639
		Filing Date	05/16/01
		First Named Inventor	Nissim Darvish et al
		Art Unit	3762
		Examiner Name	G.R. Evanisko
Sheet 8 of 15	Attorney Docket Number	IMP031.228766	

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		Number-Kind Code <sup>2</sup> (if known)			
	EP	US- 6,071,305	Jun. 2000	Brown, et al.	
	EQ	US- 6,086,582	Jul. 1997	Altman, et al.	
	ER	US- 6,136,019	Oct. 2000	Mower	
	ES	US- 6,141,586	Oct. 2000	Mower	
	ET	US- 6,151,586	Oct. 2000	Brown	
	EU	US- 6,178,351	Jan. 2001	Mower	
	EV	US- 6,295,470	Sept. 2001	Mower	
	EW	US- 6,337,995	Jan. 2002	Mower	
	EX	US- 6,341,235	Jan. 2002	Mower	
	EY	US- 6,343,232	Jan. 2002	Mower	
	EZ	US- 6,411,847	Jun. 2002	Mower	
	FA	US- RE38119	May 2003	Mower	
	FB	US- 4,559,946	Dec. 1985	Mower	
	FC	US- 4,726,279	Feb. 1988	Kepler, et al.	
	FD	US- 4,971,058	Nov. 1990	Pless, et al.	
	FE	US- 5,172,699	Dec. 1992	Svenson, et al.	
	FF	US- 5,184,620	Feb. 1993	Cudahy, et al.	
	FG	US- 5,346,506	Sept. 1994	Mower et al.	
	FH	US- 5,476,497	Dec. 1995	Mower	

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Sheet	9	of	15
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Application Number	09/720,639
Filing Date	05/16/01
First Named Inventor	Nissim Darvish et al
Art Unit	3762
Examiner Name	G.R. Evanisko
Attorney Docket Number	MP031.228766

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/720,639		
		Filing Date	05/16/01		
		First Named Inventor	Nissim Darvish et al		
		Art Unit	3762		
		Examiner Name	G.R. Evanisko		
Sheet	10	of	15	Attorney Docket Number	IMP031.228766

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	FL	Antman, E.M. et al. "Treatment of 150 Cases of Life-Threatening Digitalis Intoxication with Digoxin-Specific Fab Antibody Fragments," June 1990 Circulation; Vol. 81: No. 6: pp. 1744-1752.	
	FM	Antoni, H. et al. "Polarization Effects of Sinusoidal 50-Cycle Alternating Current on Membrane Potential of Mammalian Cardiac Fibers", Pfluegers Arch. 314, pp. 274-291 (1970)	
	FN	Bach, S.M., "Tach Arrhythmia Detection, Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapter 15, pp. 303-323, Eds, Mark W. Kroll and Michael H. Lehmann, Kluwer Academic Publishers, USA, 1997	
	FO	Bakker, P.F., et al., "Beneficial Effects of Biventricular Pacing of Congestive Heart Failure", PACE, Vol. 17, April 1994, Part 11, one page	
	FP	Bakker, P.F., et al., "Biventricular Pacing Improves Functional Capacity in Patients with End-Stage Congestive Heart Failure" PACE, Vol. 17, April 1995, Part 11, one page	
	FQ	Bargheer K. et al., "Prolongation of Monophasic Action Potential Duration and the Refractory Period in the Human Heart by Tedisamil, a New Potassium-Blocking Agent", J. Eur Heart 15 (10), Oct. 1994, pp. 1409-1414	
not complete	<del>FR</del>	<del>Bers, D.M., Excitation-Contraction Coupling and Cardiac Contractile Force, Kluwer Academic Publishers, London, 1993</del>	
	FS	Borst, et al. "Coronary Artery Bypass Grafting Without Cardiopulmonary Bypass and Without Interruption of Native Coronary Flow Using a Novel Anastomosis site restraining device ('Octopus')", Journal of the American College of Cardiology, 27 (6), May 1996.	
	FT	Cano, N.J. et al. "Dose-Dependent Reversal of Digoxin-Inhibited Activity of an In-Vitro NA+K+ATPase Model by Digoxin-Specific Antibody," May 1996; pp. 107-1011; Toxicology Letters; Vol. 85; No. 2	
	FU	Cazeau S. et al., "Multisite Pacing for End-Stage Heart Failure: Early Experience", Pacing and Clinical Electrophysiology Vol. 19, Nov. 1996, Part 11, pp. 1748-1757	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/720,639
		Filing Date	05/16/01
		First Named Inventor	Nissim Darvish et al
		Art Unit	3762
		Examiner Name	G.R. Evanisko
Sheet 11 of 15	Attorney Docket Number	IMP031.228766	

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	FV	Cooper, W., "Postextrasystolic Potentiation: Do We Really Know What It Means and How to Use It?" Circulation, Vol. 88, No. 6, Dec. 1993, pp. 2962-2971	
	FW	Dillon, SM., "Optical Recordings in the Rabbit Heart Show that Defibrillation Strength Shocks Prolong the Duration of Depolarization and the Refractory Period" in Circ Res., 69 (3), September 1991, pp. 842-856	
	FX	Dillon, SM., abstract of "Synchronized Repolarization After Defibrillation Shocks. A Possible Component of the Defibrillation Process Demonstration By Optical Recordings in Rabbit Heart", Circulation, May 1992, Vol. 85, No. 5, pp. 1865-78	
	FY	Fain, E.S., et al. "Improved Internal Defibrillation Efficacy with a Biphasic Waveform", American Heart Journal 117 (2), February 1989, pp. 358-364.	
	FZ	Fleg, J.L. et al., "Impact of Age on the Cardiovascular Response to Dynamic Upright Exercise in Healthy Men and Women", J. Appl. Physiol., Vol. 78, 1995, p. 890.	
	GA	Foster, A.H, et al., "Acute Hemodynamic Effects of Atrio-Biventricular Pacing in Humans", 1995, The Society of Thoracic Surgeons Vol. 59, pp. 294-299.	
	GB	Franz, M.R., "Bridging the Gap Between Basic and Clinical Electrophysiology: What Can be Learned from Monophasic Action Potential Recordings?", J. Cardiovasc Electrophysiol 5(8), August 1994, pp. 699-710	
	GC	Franz, M.R., "Method and Theory of Monophasic Action Potential Recording", Prog. Cardiovasc Dis 33 (6), May-June 1991, pp. 347-368	
	GD	Franz, M.R., "Progress in Cardiovascular Disease: Monophasic Action Potential Symposium, I. Introduction", Prog. Cardiovasc Dis 33 (6), May-June 1991 pp. 345-346	
	GE	Fromer et al., "Ultraprapid Subthreshold Stimulation for Termination of Atrioventricular Node Reentrant Tachycardia", Journal of the American College of Cardiology 20 (October 1992), pp.879-883	

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		Filing Date	05/16/01		
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		Art Unit	3762		
		Examiner Name	G.R. Evanisko		
Sheet	12	of	15	Attorney Docket Number	IMP031.228766

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	GF	Fu, P and B.J. Bardakjian, "System Identification of Electrically Coupled Smooth Muscle Cells: The Passive Electrically Coupled Smooth Muscle Cells: The Passive Electrical Properties", published in IEEE Transactions on Biomedical Engineering, 38(11), pp. 1130-1140, 1991.	
	GG	Ham, Frederic M and Han, Soowhan, "Classification of Cardiac Arrhythmias Using Fuzzy Artmap"; IEEE Transactions on Biomedical Engineering, Vol. 43, No. 4, Apr. 1996.	
	GH	Hoffman, B.F. et al., "Effects of Postextrasystolic Potentiation on Normal & Failing Hearts", Bulletin of New York Academy of Medicine, 41 in 1965, pp. 498-534.	
not complete	GI	Josephson, M.F. "Clinical Cardiac Electrophysiology: Techniques and Interpretations, 2nd Edition, Lea & Febiger, Philadelphia, 1991	
	GJ	King, A. et al., "The Inotropic Action of Paired Pulse Stimulation in the Normal and Failing Heart: An Experimental Study", Cardiovascular Research, Vol. 2, April 1968, pp. 122-129	
	GK	Krisley et al., "Prolongation and Shortening of Action Potentials by Electrical Shocks in Frog Ventricular Muscle", American Journal of Physiology 6 (Heart Circ. Physiol. 35, 1994) pp. H2348-H2358	
	GL	Koller, et al., "Relation Between Repolarization and Refractoriness During Programmed Electrical Stimulation in the Human Right Ventricle", Circulation 91(9), 2378-2384, 1995.	
	GM	Langberg, Jonathan J. et al., "Identification of Ventricular Tachycardia with Use of the Morphology of the Endocardial Electrogram", Circulation, Vol. 77, No. 6, Jun. 1988.	
	GN	McVeigh, E.R. et al., "Noninvasive Measurement of Transmural Gradients in Myocardial Strain with MR Imaging"; Radiology 180 (3), Sep. 1991, pp. 677, 679-684.	
	GO	Mercando, A.D., et al., "Automated Detection of Tachycardias by Antitachycardia Devices", Chapter 100, pp. 943-948, in Cardiac Electrophysiology from Cell to Bedside, Eds. Douglas P. Zipes and Jose Jalife, publishers W.B. Saunders Company (1990).	

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	GP	Moran, R.J. et al; "Digoxin-Specific Fab Fragments Impair Renal Function in the Rat." 1994; pp. 854-856; Journal of Pharmacy and Pharmacology; Vol. 46; No 10.	
no date and not complete	<del>GG</del>	<del>Morse et al. "A Guide to Cardiac Pacemakers, Defibrillators and Related Products", Droege Computing Services, Durham, NC.</del>	
	GR	<del>Merck Manual, The, Section 3, the 16th Edition of the Merck Manual, Published in 1992</del>	
not complete	GS	Paul, V.E., et al. "Automatic Recognition of Ventricular Arrhythmias Using Temporal Electrogram Analysis" Pace, Vol. 14, pp. 1265-1273, (1991).	
	GT	Qiuzhen Xue et al., "Neural-Network-Based Adaptive Matched Filtering for QRS Detection", IEEE Transactions on Biomedical Engineering, Vol. 39, No. 4. Apr. 1992	
	<del>GU</del>	<del>Saksena et al., "Dual-site Atrial Pacing in Atrial Fibrillation", JACC, Vol. 28, No. 3, September 1996, pp. 667-94</del>	
	GV	Shumak, G.M. et al, "Oleander Poisoning; Treatment with Digoxin-Specific Fab Antibody Fragments;" July 1988; pp. 732-735; Annals of Emergency Medicine; Vol. 17; No. 7	
	GW	Sweeny RJ, et al., abstract of "Countershock Strength-Duration Relationship for Myocardial Refractory Period Extension", Acad Emerg. Med., Jan. 1995, Vol. 2, No. 1, pp. 57-62	
	GX	Sweeny RJ, et al., abstract of "Refractory Interval After Transcardiac Shocks During Ventricular Fibrillation", Circulation, Dec. 1996, Vol. 94, No. 11, pp. 2947-52.	
	GY	Sweeny RJ, et al., abstract of "Ventricular Refractory Period Extension Caused by Defibrillation Shocks", Circulation, September 1990, Vol. 82, No. 3, pp. 965-972	

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		First Named Inventor	Nissim Darvish et al
		Art Unit	3762
		Examiner Name	G.R. Evanisko
		Attorney Docket Number	IMP031.228766
Sheet	14	of	15

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	GZ	Talit, U. et al., "The Effect of External Cardiac Pacing on Stroke Volume", Pace 13, May 1990, pp. 598-60	
	HA	Tsong, T.Y., "Electroporation of Cell Membranes" August 1991; pp. 297-306; Biophysical Journal; Vol. 60	
	HB	Verrier, et al, "Electrophysiologic Basis for T Wave Alternans as an Index of Vulnerability to Ventricular Fibrillation" Journal of Cardiovascular Electrophysiology, Vol. 5, pp. 445-461, 1994	
	<del>HC</del>	<del>Webster, John G., ed., Design of Cardiac Pacemakers, IEEE Press, Piscataway, New Jersey, 1995</del>	
not complete	HD	Wessale, J.L. et al., "Stroke Volume and Three Phase Cardiac Output Rate Relationship with Ventricular Pacing" Pace 13, May 1990, pp. 673-680	
	HE	Wirtzfeld, A. et al., "Physiological Pacing: Present Status and Future Developments", Pace 10 January-February 1987, Part I, pp. 41-57	
	<del>HF</del>	<del>Zipes, D et al., Cardiac Electrophysiology from Cell to Bedside, 1990, W.B. Saunders Co., Philadelphia</del>	
	HG	Guidant Product Catalogue, 2001, 2 pages	
	<del>HH</del>	<del>"The Latest Tetralogy of Fallot Discussion with Graphical Support Including Video of Echocardiography and Catheterization" Pediatric Electrophysiology Book ("An On-Line Resource for Pediatric Critical Care")</del>	
	HI	Brumwell D.A. et al. "The Amplifier: Sensing the Depolarization", Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapt. 14, pp. 275-302, Eds. Kroll and Lehmann, Kluwer Academic Publishers, USA 1997	

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Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/720,639		
		Filing Date	05/16/01		
		First Named Inventor	Nissim Darvish et al		
		Art Unit	3762		
		Examiner Name	G.R. Evanisko		
Sheet	15	of	15	Attorney Docket Number	IMP031.228766

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	HJ	Gill RJ, et al., abstract of "Refractory Period Extension During Ventricular Pacing at Fibrillatory Pacing Rates" Pacing Clin. Electrophysiol, March 1997, vol. 20, No. 3, pp. 647-653	
	HK	Hardage, M.L. and Sweeney, M.B., "Anti-Tachycardia Pacing and Cardioversion", Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapt. 6, pp. 325-342, Eds. Mark W. Kroll and Michael H. Lehmann, Kluwer Academic Publishers U.S.A 1997	
	HL	Matheny R.G. and C.J. Shaar, "Vagus Nerve Stimulation as a Method to Temporarily Slow or Arrest the Heart" Annals of Thoracic Surgery. 63 (6) Supplement, pp. S28-29, June 1997	
	HM	Supino, C.G., "The System", Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapt. 6, pp. 163-172, Eds. Mark W. Kroll and Michael H. Lehmann, Kluwer Academic Publishers, USA 1997	
	HN	Thakor et al., "Effect of Varying Pacing Waveform Shapes on Propagation and Hemodynamics in the Rabbit Heart", The American Journal of Cardiology 79 (6A), pp.36-43, 1997.	

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